

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/849,526A

DATE: 11/16/2001

TIME: 11:21:10

Input Set : D:\PA\_00348.txt

Output Set: N:\CRF3\11162001\I849526A.raw

**ENTERED**

1 <110> APPLICANT: Ruff, Thomas G.  
2 Shukla, Hridayabhiranjan  
4 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With  
5 Plants  
7 <130> FILE REFERENCE: 16517 250[38-21(51930)B]  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/849,526A  
10 <141> CURRENT FILING DATE: 2001-05-07  
12 <150> PRIOR APPLICATION NUMBER: US 60,202,214  
13 <151> PRIOR FILING DATE: 2000-05-08  
15 <150> PRIOR APPLICATION NUMBER: US 09,654,617  
16 <151> PRIOR FILING DATE: 2000-09-05  
18 <150> PRIOR APPLICATION NUMBER: US 09,684,016  
19 <151> PRIOR FILING DATE: 2000-10-10  
21 <150> PRIOR APPLICATION NUMBER: US 09,816,660  
22 <151> PRIOR FILING DATE: 2001-03-26  
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27 <211> LENGTH: 454  
28 <212> TYPE: DNA  
29 <213> ORGANISM: Zea mays subsp. mexicana  
31 <220> FEATURE:  
32 <223> OTHER INFORMATION: Clone ID: uC-mroteosinte002d05b1  
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38 cgggttcgtg ggtgaagaga tcgaatggc ggcgtcgat gttgagtacc gctgcttctg 120  
40 cggcgccctc gctggagga cggagcagca ctccctccac aacgcttca gacactaag 180  
42 cgaatctctc caatccaga tctctctcga tcggagagc cagatctcc gctcttctg 240  
44 ctctctcacc ttctccagga aggagcgat gccaacgca atcgaggga tgaacgcaa 300  
46 agagtctgac ggcgcagaca tcacctcaa cgaagccca tcccgaggag gcaatgagg 360  
48 cggcgagggc ggttacggtg atgcccctga agcgagcga tacggcgatg gcggcgagg 420  
50 tgaatggcgc ggcggctag gggtagggag caggc 454  
53 <210> SEQ ID NO: 2  
54 <211> LENGTH: 456  
55 <212> TYPE: DNA  
56 <213> ORGANISM: Zea mays subsp. mexicana  
58 <220> FEATURE:  
59 <223> OTHER INFORMATION: Clone ID: uC-mroteosinte002d12b1  
61 <400> SEQUENCE: 2  
63 tgaacggttg ggcgagcag tggcgagag cttggcgagg cacaggaag acattgttg 60  
65 caagtgcgtt tctcctcac actgactgca cttctatca ggtctctagt tctgagttg 120  
67 ttcaaaagta tattggtgag ggtcccgaa tggttagga actcttctt atgcccagg 180  
69 aacatgcacc atccattata ttatggtg aaattgactc tatcgatat gctagaaatg 240  
71 agctcgaagc tggcaacggt gacagtgaag ttcagcgtao tatgcttgaa cttctaaac 300  
73 agctcgatag ttctgaagca tcaaacaaaa ttaaggtttt gatggcaac aacagaatag 360  
75 acattttgga tcaagccctt ctgaggcctg ggcgcataga caggaagatt gaatttccaa 420  
77 atccaaacga ggattcaagt ttcatatat tgaaga 456  
80 <210> SEQ ID NO: 3

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/849,526A

DATE: 11/16/2001

TIME: 11:21:19

Input Set : D:\PA\_00348.txt

Output Set: N:\CRF3\11162001\I849526A.raw

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81 <211> LENGTH: 461
82 <212> TYPE: DNA
83 <213> ORGANISM: Zea mays subsp. mexicana
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte002e07b1
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92 tcagagcgat tccaigatgc qgaqagctgq gtqacaccaa acctacctga agaagatgag    120
94 qagactgcac ctaagcaatt ccaagagaaq gacacagaaq qacttcaaca acaccaaaqg    180
96 ccqgatgagc agcatcgca acctgaagag caaaagtctc agcaggaaatg caatgaaag    240
98 gcacgggagc aattccaaac ctgaagaaq ctaggcgcgc caccacgtct tctgacaaac    300
100 gtgcgccggt tctcccttca ggaqettata caccagaaag agcttccgac cggcagagcg    360
102 atgcctgcca gaaagcaagq cagccgtgga gagaqgtgct tcqctgatea caatgtttca    420
104 ggacacggag cagcagcagq gggcacgaca ctgcccattg t                                461
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108 <211> LENGTH: 477
109 <212> TYPE: DNA
110 <213> ORGANISM: Zea mays subsp. mexicana
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte002h03a1
115 <400> SEQUENCE: 4
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119 tcatctcaca gaggattgca ccaqccaaac aqqqgaaca gaatcqqagc tacaagabcg    120
121 qtcatttggt gcgtaaatca tacaacaaaa aactaaaaaa cctgtttctt attttctac    180
123 tacatccagt ccgctacgca aaaaactccc atcaaacctc ttattaaaca atttcacaca    240
125 caatlitggg acctgcaggc tcttccagtq gccagctctc actcccaaaa actgtaagaa    300
127 caaaataaaq gacgcattct tatagcgcag caccgaattc cagcatcaaa gtatqgttcg    360
129 agtcattact tccagggcca ctgaactgga tggggccagg actgatgtat ctgttttga    420
131 qggccacttc atcacccatc gatccatatt ttttgaagq tgcagcaatc agttcga    477
134 <210> SEQ ID NO: 5
135 <211> LENGTH: 301
136 <212> TYPE: DNA
137 <213> ORGANISM: Zea mays subsp. mexicana
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte003f08b1
142 <400> SEQUENCE: 5
144 ggtctagctg atcaaacctt ttgcatttgg tttttatata gtaaggaagt agattgctg    60
146 aaaaqgcaga gacgggcaac aacatctgat tttctgtgag caaaagatgg aaatcttata    120
148 ataaqcttga gtaqggacaa tgaatttct ctatttgata ggaqacaaa acatgaqaga    180
150 ataatggaag aggtatgtac aattacttca tttctctat tacaagatgg tgatftcctt    240
152 cttgtaaaatc ttgttaqtga aaaaattcat ttgtgggaca taqaaaatga tctgttcga    300
154 g                                301
157 <210> SEQ ID NO: 6
158 <211> LENGTH: 400
159 <212> TYPE: DNA
160 <213> ORGANISM: Zea mays subsp. mexicana
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte003g03b1
165 <400> SEQUENCE: 6

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## RAW SEQUENCE LISTING

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167 ttcttgcgccg ggcgtgcgcg cgcgcgaatt cgcgcgcgac tgcgtctact ggcgcgcgcg 60
169 gctcctcggg ggcgcgcgcg ctgcgcgcgc ctacgcgcgc atcttcctcg ggcgcgcgcg 120
171 ccagcaggtc ggcgcgcgcg actacgcgcg agtaagtctc cgttcgtctg gattgcgcgc 180
173 atccaaagca ggcgcgcgcg tgcgcgcgcg tgcgcgcgcg cgttcgtctg cgttcgtctg 240
175 cgttcgtctg cgttcgtctg atgcgcgcgc tgcgcgcgcg tgcgcgcgcg cgttcgtctg 300
177 ttcttcctct ttcttcgcgcg taaaatcgat gtaaacgctc cgttcgtctg ggcgcgcgcg 360
179 atgcgcgcgc agtgcgcgcg aaaaacaggtg atttcgtctg 400
182 <210> SEQ ID NO: 7
183 <211> LENGTH: 421
184 <212> TYPE: DNA
185 <213> ORGANISM: Zea mays subsp. mexicana
187 <220> FEATURE
188 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte003g10b1
190 <400> SEQUENCE: 7
192 tctcctcctc cgcgcgcgcg ggcgcgcgcg agaagggcat ggcgcgcgcg ctctaccact 60
194 acaaaagcgc cgcgcgcgcg ttctcgcgcg agctcgcgcg ccagcaggtc aaqgctctca 120
196 aggaagcgcg aggtctctct caggtctctc cgcgcgcgcg ttaccagctc catgctctcg 180
198 ggtctgcgcg tccacagcgc agcgcgcgcg cgttcgcgcg tatgtgaagc cgttcgcgcg 240
200 tcaaaagcat tgcgcgcgcg aggtctctc aggtctctc ggcgcgcgcg tgcgcgcgcg gtaagctc 300
202 gtaagctc tgcgcgcgcg aggtctctc tatctctc tgcgcgcgcg tgcgcgcgcg tgcgcgcgcg 360
204 ttctaaagct tgcgcgcgcg caatgcgcgc tgcgcgcgcg caatgcgcgc tatgcctctc 420
206 t
209 <210> SEQ ID NO: 3
210 <211> LENGTH: 533
211 <212> TYPE: DNA
212 <213> ORGANISM: Zea mays subsp. mexicana
214 <220> FEATURE
215 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte004h11b1
217 <400> SEQUENCE: 3
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221 gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg 120
223 gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg 180
225 gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg 240
227 gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg 300
229 gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg 360
231 gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg 420
233 gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg 480
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238 <210> SEQ ID NO: 9
239 <211> LENGTH: 354
240 <212> TYPE: DNA
241 <213> ORGANISM: Zea mays subsp. mexicana
243 <220> FEATURE
244 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte005a06b1
246 <400> SEQUENCE: 9
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252 gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg 180
254 gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg gcttcgcgcg 240

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256 tcttcttctt gaaataaatg aaaataactct gttgaaqatt gccgaactttt gatttjaaaa 390
258 atttttgcac ccttttgcce tagccgaaac acttttqagt taccgaacttt acat 354
261 <210> SEQ ID NO: 10
262 <211> LENGTH: 523
263 <212> TYPE: DNA
264 <213> ORGANISM: Zea mays subsp. mexicana
266 <220> FEATURE
267 <223> OTHER INFORMATION: Clone ID: uc-zmroteosinte005b01b1
269 <400> SEQUENCE: 10
271 cgcctgacac cactctcttgg ggcgagacgc gcacgcgcga gtcggaqatc gtggaacacg 60
273 acctgccgtt ccccgatccg gcgatgatat tcccacagaa ggcgcgggtg gacgacggcg 120
275 gcagcgccag gaccagcagc ctgttcgagc atctcagcta cgcgcacatc caaggcatgt 180
277 acagcgccct cgcctcgtc cgcgcggcg gcgaggaact gtactctctg ctcttcgcgt 240
279 cgcgcaggtt caggggaaac cagccacccg gacgcgcggg gttgggcccc ttctgagtga 300
281 gctcaggcga ggttggagge atggagatca ggcagagaag cgcgcgcgt tgcacactct 360
283 taaataacag cataaggacga ggcgtcgaa cctgactgaa ctggtcgggg ttacaaatcg 420
285 agtgcgtcgg tgtttcgtac atgggaaccc gcccttacat ggcgcgcggc ccggtcttgg 480
287 ttggcgctg gctcatctt tagtttcaat cctgcgcag acg 523
290 <210> SEQ ID NO: 11
291 <211> LENGTH: 544
292 <212> TYPE: DNA
293 <213> ORGANISM: Zea mays subsp. mexicana
295 <220> FEATURE
296 <223> OTHER INFORMATION: Clone ID: uc-zmroteosinte006c10b1
298 <400> SEQUENCE: 11
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302 tgcgcacact ggcgcacccg cgcgcgcgt ctactccagg tcccacggcg ttgcctcgta 120
304 ccttctcagg ccttcacgcg gtccttcgcg ggcgcacatc accgacaaag atggaaagaa 180
306 caattaatte ctgcatgtac aaagcatata ttccgtgatc caattaatca tcaagaaagg 240
308 gaaacaaact ctctttagtc tacatatcag gtaagatga gctttccagt agtttggaac 300
310 agtcacact gattgatgaa aacgtggttg aagtgategg tagatgttc atcttatgac 360
312 atctcaagca ggcgaatgtt atgcatca attttggc tatctatc cagaagctg 420
314 taccagat atcagtgatt ggaactgaat ggaattctct gtggaatcat gatgaatata 480
316 ataacctctt caatctgaaa gaaagcattg aaaaagcgtg gactgctctt atctacagaa 540
318 taca 544
321 <210> SEQ ID NO: 12
322 <211> LENGTH: 545
323 <212> TYPE: DNA
324 <213> ORGANISM: Zea mays subsp. mexicana
326 <220> FEATURE
327 <223> OTHER INFORMATION: Clone ID: uc-zmroteosinte006d05b1
329 <400> SEQUENCE: 12
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333 gacatctttt aggcctatga aatctaaacg tgaatatctg aggcacagaa ggaactttaa 120
335 ttggtctgac ctctcagcag ttgcagcttt gaaaqaattt ccttttatga aggttttagg 180
337 ggaacatgct ttccctgttc caactgctgt gaattcaat cgcgaattgt tgaatcagtc 240
339 actgtgacag ggaatctctc ttgttcaagt gaaaqaatta caaaatccag atgacgtttt 300
341 tgaacaaatt ctggtcttta ttgttcggtt ggcagagcat ggaactgata attgtgaact 360
343 taatgagttc aatatcatga ttgatgatg tgaaaaaatt acggttattg atttaccaca 420

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/849,526A

DATE: 11/16/2001

TIME: 11:21:11

Input Set : D:\PA\_00348.txt

Output Set : N:\CRF3\11162001\I849526A.raw

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345 gatggtatct gtttctcacc gtaatgccca aatgtttttt gaccgagaca ttgaatgtat 480
347 ctacaaqtgc tttaacaaaa gtttcaatct gacaacagag aaaaatgaag aacaagctgg 540
349 gtctg 545
352 <210> SEQ ID NO: 13
353 <211> LENGTH: 546
354 <212> TYPE: DNA
355 <213> ORGANISM: Zea mays subsp. mexicana
357 <220> FEATURE
358 <223> OTHER INFORMATION: Clone ID: uc-zmroteosinte007e06b1
360 <400> SEQUENCE: 13
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364 ctgtctgacc tcttgatagg tgtctcgaaa gcagagaggg aagaagcggc gatgaggata 120
366 aggcaggaaat ctctcaagact tgggaatatt gttgttatga gagctggaa c tctctatct 180
368 gaaatttggg aagtcggaca ggcataaaaa gatcttaatt ctacactga atctttactg 240
370 gaaartaagg agactattga aagcctatgt aaatcactta agaaaagaca atctgacaag 300
372 ggtgatgaca gtgacgctga gactagcatg tccgaggagg acattgtctt acaqqacgaa 360
374 atatgtaaat ctctctaac cagtatcaaa cgggaggaag aacagtatat gagagagaga 420
376 gatcgtatg agtggaaaa ggggaggttt atacgagaga tgaagctctt cacagatgaa 480
378 gatgctcac gctttaaaaa ctctcaaat. ctctaccata gttatgctct gttaaatctt 540
380 ctgga 546
383 <210> SEQ ID NO: 14
384 <211> LENGTH: 548
385 <212> TYPE: DNA
386 <213> ORGANISM: Zea mays subsp. mexicana
388 <220> FEATURE
389 <221> NAME/KEY: unsure
390 <222> LOCATION: (1)..(548)
391 <223> OTHER INFORMATION: unsure at all n locations
393 <220> FEATURE
394 <223> OTHER INFORMATION: Clone ID: uc-zmroteosinte007f08b1
396 <400> SEQUENCE: 14
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402 ggcgacaaat acaagcgcga aaaaacctta cctctctccc gtcaggtga tcaaggttag 180
404 gctcaaccgc ctgctctccc cctgctctgg caacatgctc atgcccacca tcaagaaagg 240
406 taagcccgac ctcaaggaaga aatctatccc cctgctctcc gtcgacgga ccaagctgtg 300
408 gcgcgcgaag aacggaatct acatctactt cgaagataat gctggaatga ttgtgaacc 360
410 caagcgcgag atgaaggaat ctgctctcac tgaacctatt ggcgaaggat ggcctgacct 420
W--> 412 ttggcctang attgctagtg cagcaaatgc tattgtctga taccaccggt tgggaggctt 480
414 ttgaagatag gtttcttctg atccatttta accttttctg tacttaaaa tctgagggaa 540
416 attacttg 548
419 <210> SEQ ID NO: 15
420 <211> LENGTH: 507
421 <212> TYPE: DNA
422 <213> ORGANISM: Zea mays subsp. mexicana
424 <220> FEATURE
425 <223> OTHER INFORMATION: Clone ID: uc-zmroteosinte008g09b1
427 <400> SEQUENCE: 15
429 cctctctcca tctccctgct cctcgcctc ctctcttctc caqccaagcc agggatcgcc 60

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa

## VERIFICATION SUMMARY

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Input Set : D:\PA\_00348.txt

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L:9 M:270 C: Current Application Number differs. Replaced Current Application Number

L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14

L:477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16

L:1044 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38

L:1225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44

L:1407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51

L:1409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51

L:1411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51

L:1558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57

L:1600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58

L:2164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81

L:2246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84

L:2328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87

L:2358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88

L:2390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89

L:2455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91

L:2645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98

L:3098 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116

L:3203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120

L:3205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120

L:3437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129

L:3563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134

L:3703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139

L:3845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144

L:3996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150

L:4305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162

L:4391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:165

L:4594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173

L:4604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173

L:4855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183

L:5194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:197

L:5228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199

L:5335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:202

L:5396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204

L:5339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220

L:5341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220

L:56208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236

L:6403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244

L:6790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260

L:6792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260

L:6901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264

L:7172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:276

L:7588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:291

L:7668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294

L:7717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296

L:7749 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297

L:7763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297

L:7781 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298

## VERIFICATION SUMMARY

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TIME: 11:41:11

Input Set : D:\PA\_00348.txt

Output Set: N:\CRF3\11162001\I849526A.raw

L: 7795 M: 341 W: (46) "n" or "Xaa" used. for SEQ ID#: 298

L: 7896 M: 341 W: (46) "n" or "Xaa" used. for SEQ ID#: 302

L: 7968 M: 341 W: (46) "n" or "Xaa" used. for SEQ ID#: 305